





United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Salt Lake City,  
Utah



# Utah Water Supply Outlook

June 1, 1986



# Foreword

## How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

## For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

# Utah Water Supply Outlook and Federal – State – Private Cooperative Snow Surveys

## **Issued by**

Wilson Scaling  
Chief  
Soil Conservation Service  
Washington, D. C.

## **Released by**

Francis T. Holt  
State Conservationist  
Soil Conservation Service  
Salt Lake City, Utah

## **In cooperation with**

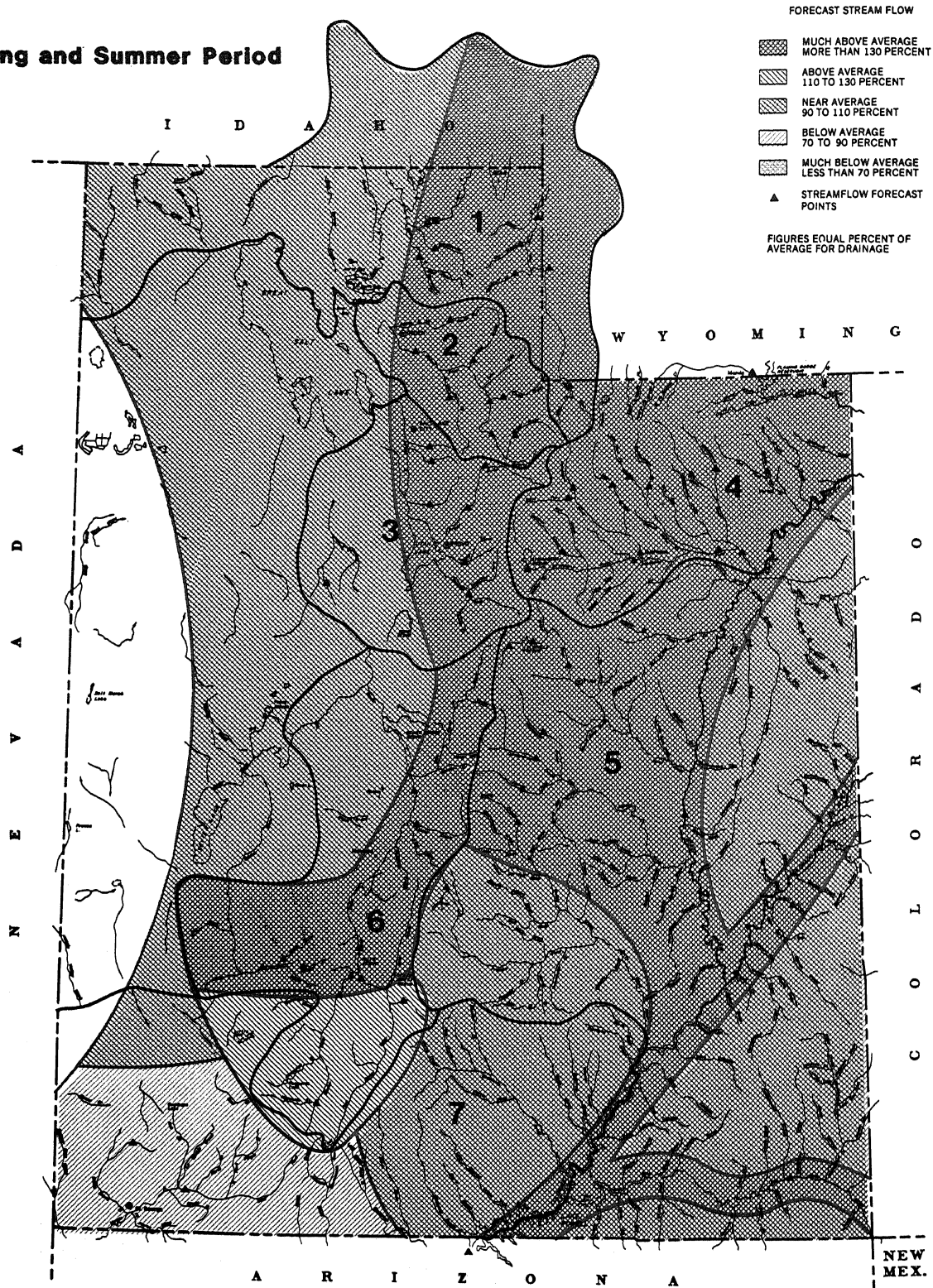
Utah State Department of Natural Resources  
Robert L. Morgan  
State Engineer  
Division of Water Rights

## **Prepared by**

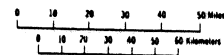
Jon G. Werner  
Snow Survey Supervisor  
Soil Conservation Service  
125 So. State St., Fed. Bldg.  
P. O. Box 11350  
Salt Lake City, Utah 84147

# Streamflow Prospects for Utah

## Spring and Summer Period



- 1 BEAR RIVER BASIN
- 2 WEBER & OGDEN WATERSHEDS IN UTAH
- 3 UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
- 4 UNITAH BASIN & DAGGET SCD'S
- 5 CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO.
- 6 SEVIER & BEAVER RIVER BASINS
- 7 E. GARFIELD, KANE, WASHINGTON, & IRON CO.



## GENERAL OUTLOOK

### SUMMARY:

Early May storms contributed more to the already heavy snowpacks on northern Utah watersheds and were responsible for bringing the Great Salt Lake to its historical peak of 4211.6 feet by mid-month. By month's end the Lake had set a new record elevation of 4211.8 feet with the new peak forecast set at 4212.0 feet. In contrast, sharp withdrawals of stored water in southwestern Utah reservoirs and extremely low streamflows are going to mean a shortened growing season.

### SNOWPACK:

Snowpack across Utah varies from much above average in the north to almost melted in the south. The Bear, Weber and Provo River watersheds have from 50 to 70% more water in their snowpack than is normal for June 1. The Uintas have about 25% more snow water than normal. Southern Utah is quite a different story. Only a handful of snow courses at the highest elevations on the Lower Sevier and San Rafael River watersheds still have snow. The Beaver River watershed is still the exception in southern Utah with 160% normal snowpack for June 1.

### PRECIPITATION:

Mountain precipitation varied widely across Utah. The Bear and Weber River watersheds had another month of above normal precipitation (the fifth and fourth month respectively). Mountain areas on the Lower Sevier and in extreme southern and southeastern Utah also had above normal precipitation. The central Uinta Mountain area received near normal precipitation. Mountain areas in the remainder of Utah had below normal rainfall in May. Seasonal precipitation accumulation (October-May) is greater than normal over the mountain areas of the entire state.

### RESERVOIRS:

Storage of usable water in 23 key irrigation reservoirs in Utah is 93% of capacity and 120% of average for June 1. Deer Creek, Rockport and Echo reservoir have been held down in anticipation of high snowmelt runoff and are filling rapidly. Reservoirs in Washington County are being depleted rapidly and shortages are likely by August.

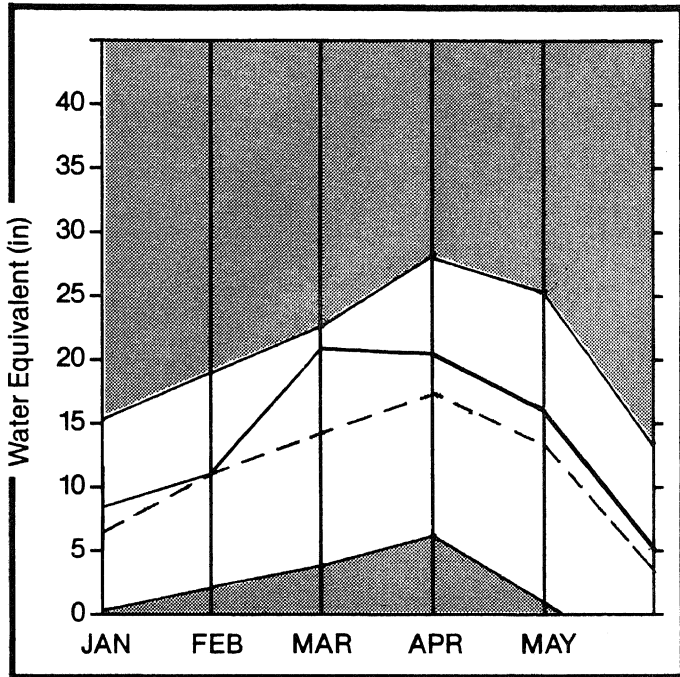
## STREAMFLOW:

Forecasts on some of the streams that feed into the Great Salt Lake have increased from the levels forecast on May 1 due to heavy early May precipitation. Forecasts over the rest of the state are generally unchanged from last month. Forecasts range from 81% to 481% of normal across the state. High water is being experienced on the Weber and Provo with some localized flooding being reported and available storage in reservoirs being filled rapidly.

*let in represent cooperative efforts of the Soil  
tional Weather Service in an effort to provide  
ter users and managers.*

# Bear River Basin

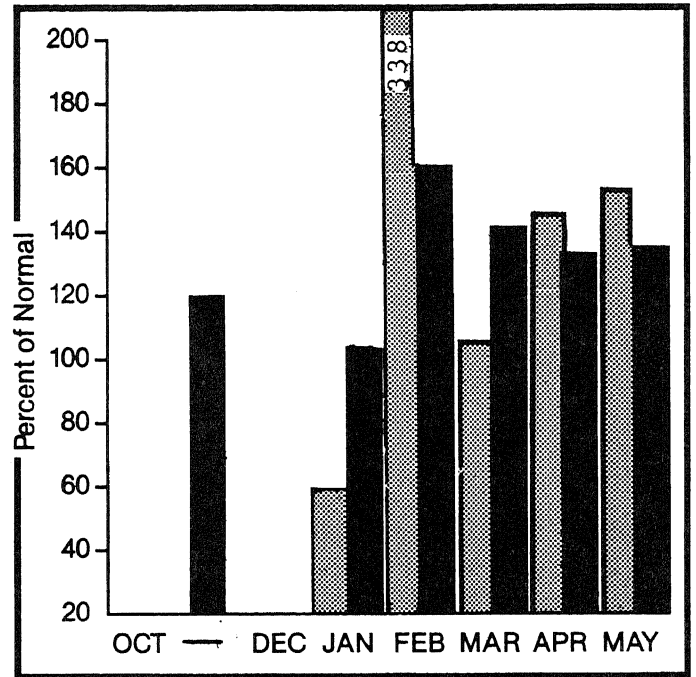
**Mountain snowpack\* (inches)**





\*Based on selected stations

Maximum  Average   
 Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Snowpack on the Bear River drainage is approximately one and one-half times normal for June 1. Logan River snowpack is also more than 50% greater than average. May precipitation at mountain stations was 153% of average (the fifth consecutive month of above normal precipitation). Reservoir storage is 95% of capacity and 119% of average. Streamflow forecasts are unchanged from last month ranging from 118% to 204% of average.

For more information contact your local Soil Conservation Service office:  
 Tremonton Field Office 801-257-5403  
 Logan Field Office 801-753-5616

# BEAR RIVER BASIN

## STREAMFLOW FORECASTS

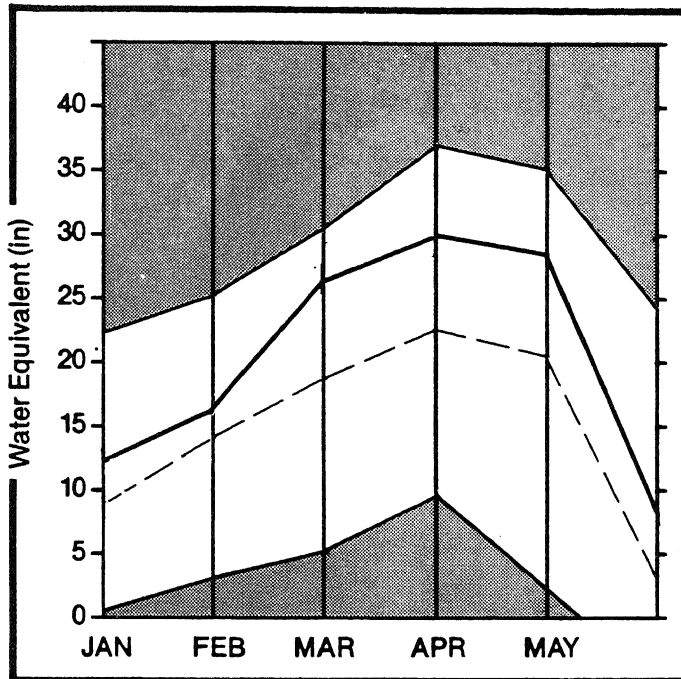
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR RIVER near Uf-WY Stateline	MAY-JUL	105.0	150.0	143			2038			
BEAR near Woodruff	MAY-JUL	116.0	162.0	140						
WOODRUFF CREEK near Woodruff	MAY-JUL	15.1	21.3	142			333			
BIG CREEK near Randolph	APR-JUL	5.3	9.5	179			90			
BEAR near Randolph	MAY-JUL	82.0	168.0	205						
THOMAS FORK near Stateline	APR-SEP	35.0	57.0	163	183	143				
SMITHS FORK near Border	APR-SEP	119.0	166.0	139	160	119				
BEAR RIVER near Harer	APR-SEP	310.0	463.0	149						
LOGAN RIVER near Logan	MAY-JUL	101.0	145.0	144			1309			
BLACKSMITH FORK near Hyrum	MAY-JUL	38.0	57.0	150						
LITTLE BEAR RIVER near Paradise	MAY-JUN	26.0	35.0	135			649			
CUB RIVER near Preston	MAY-JUL	42.9	51.0	119						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE. D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVE.			
BEAR LAKE	1421.0	1348.0	1263.0	1130.7	BEAR RIVER, UPPER IN UTAH	4	586 143
HYRUM	15.3	12.7	15.5	14.7	BEAR RIVER, LOWER IN UTAH	6	10 159
PORCUPINE	11.3	11.4	11.3	10.9	BEAR RIVER DRAINAGE IN UT	10	1124 151
WOODRUFF NARROWS	55.8	59.4	59.1	—	BEAR RIVER, UPPER (above	4	586 145
WOODRUFF CREEK	3.5	4.0	3.5	—	BEAR RIVER, LOWER (below	5	10 161
					BEAR RIVER DRAINAGE	8	982 151
					LOGAN RIVER	4	10 157
					RAFT RIVER	0	0 0
					BEAR RIVER BASIN	11	1207 154

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# Weber & Ogden Watersheds

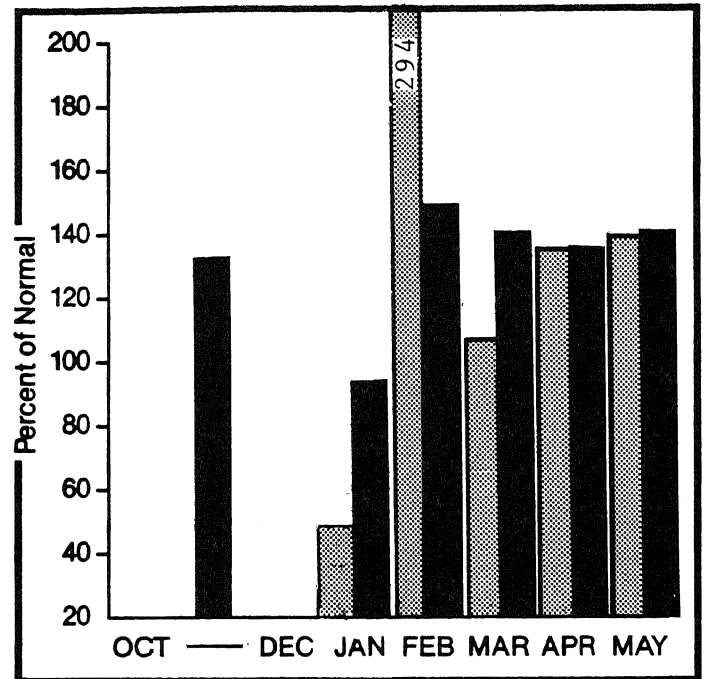
**Mountain snowpack\* (inches)**



\*Based on selected stations

Maximum  Average   
 Minimum  Current 

**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Snowpack on the Weber River drainage is nearly 70% above average for June 1. Ogden River snowpack is 56% greater than normal. Mountain precipitation for the fourth consecutive month was greater than normal with May precipitation at 140% of average. Reservoirs are storing 90% of capacity and 100% of average for the first of June. Forecasts of May through June streamflow are higher than the May 1 forecasts due to the heavy early May precipitation. Forecasts range from 161 to 248% of average.

For more information contact your local Soil  
 Conservation Service office:  
 Layton Sub Office 801-544-9144

# WEBER & OGDEN WATERSHEDS in Utah

## STREAMFLOW FORECASTS

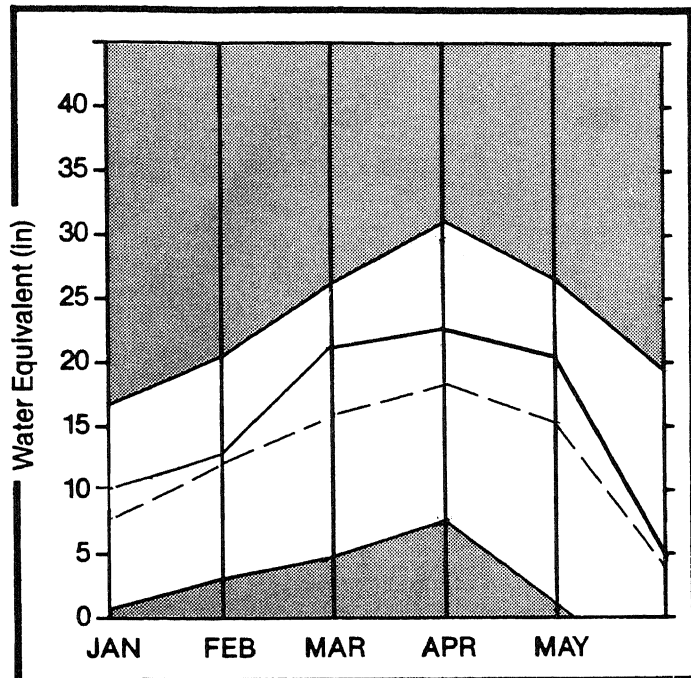
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST. PROBABLE (1000AF)	HIST. PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MTN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEBER RIVER near Oakley	MAY-JUN	193.0	170.0	183			2511			
ROCKPORT RESERVOIR inflow	MAY-JUN	196.0	217.0	226						
CHALK CREEK near Coalville	MAY-JUN	29.0	62.0	214			1005			
WEBER RIVER near Coalville	MAY-JUN	98.0	202.0	206						
LOST CREEK near Crovden	MAY-JUN	11.2	22.8	204						
EAST CANYON CREEK near Morgan	MAY-JUN	16.3	27.0	166						
HARDSCRABBLE CREEK near Porterville	APR-JUN	18.4	30.0	163						
SOUTH FORK OGDEN RIVER near Huntsvil	MAY-JUN	41.0	68.0	166						
PINEVIEW RESERVOIR inflow	MAY-JUN	74.0	136.0	184						
ECHO RESERVOIR inflow	MAY-JUN	128.0	240.0	188						
WEBER RIVER at Gateway	APR-JUN	300.0	575.0	192						
FARMINGTON CREEK near Farmington	MAY-JUL	6.7	12.8	191						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE. D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
CAUSEY	6.9	6.5	7.0	6.3	OGDEN RIVER	4	0	156
EAST CANYON	48.1	46.2	48.7	46.8	WEBER RIVER	9	752	169
ECHO	73.9	56.1	73.8	65.6	WEBER & OGDEN WATERSHEDS	13	1112	164
LOST CREEK	20.0	19.2	20.4	19.1				
PINEVIEW	110.1	103.4	110.2	99.2				
ROCKPORT	60.9	40.9	62.4	47.2				
WILLARD BAY	165.5	163.9	165.5	152.7				

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# Utah Lake, Jordan River & Tooele Valley

**Mountain snowpack\* (inches)**



\*Based on selected stations

Maximum



Average



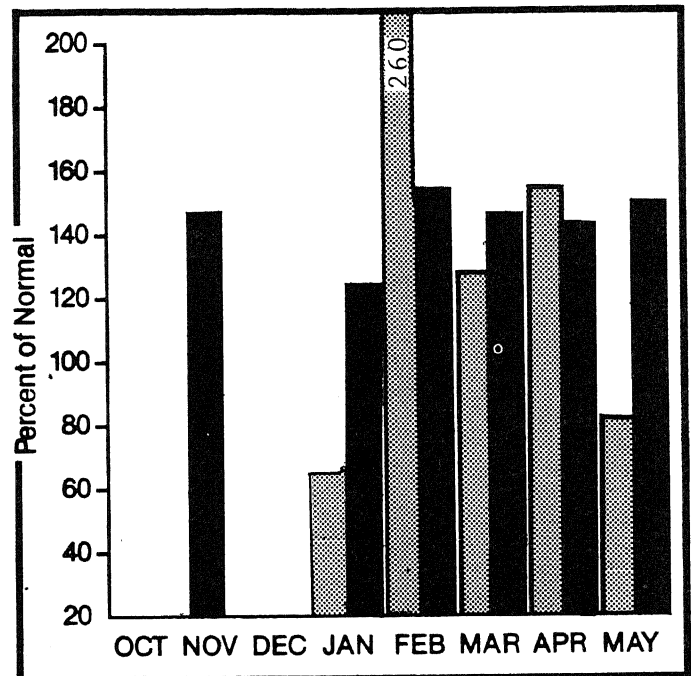
Minimum



Current



**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation



Year to date precipitation



## WATER SUPPLY OUTLOOK:

Snowpack on the watershed which drains into Utah Lake is nearly 50% greater than average. Provo River snowpack contains almost 60% more water than is normal for the first of June. Precipitation at mountain stations was generally below average during May with the exception of Trial Lake which received 121% of average. Reservoir storage is 79% of capacity and 87% of average with Deer Creek being held down. Heavy early May precipitation increased some forecasts. Forecasts range from 92 to 241%.

For more information contact your local Soil Conservation Service office:  
 Midvale Field Office 801-524-4373  
 Provo Field Office 801-377-5590

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

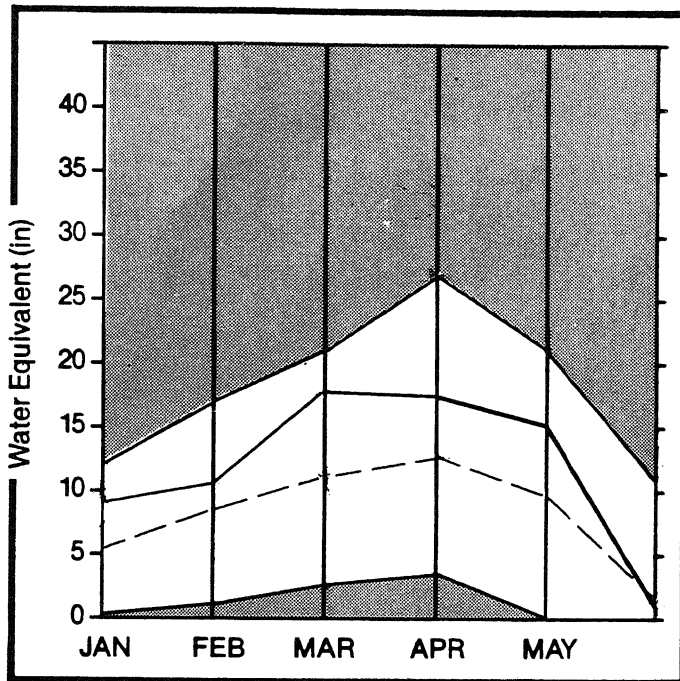
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST. PROBABLE (1000AF)	HIST. PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MTN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
PROVO near Hailstone	MAY-JUL	94.0	190.0	202						
PROVO below Deer Creek Dam	MAY-JUL	96.0	187.0	195						
AMERICAN FORK near American Fk.	MAY-JUL	28.0	58.0	207						
HOBBLE CREEK near Springville	MAY-JUL	13.3	25.0	188						
STRAWBERRY RESERVOIR inflow	APR-JUL	72.0	130.0	181						
PAYSON CREEK near Payson	MAY-JUL	4.4	7.0	159						
UTAH LAKE inflow	MAY-JUL	166.0	400.0	241						
LITTLE COTTONWOOD CRK near SLC	MAY-JUL	36.0	49.0	136						
BIG COTTONWOOD CRK near SLC	MAY-JUL	33.0	49.0	148						
PARLEY'S CREEK near SLC	MAY-JUL	11.3	19.0	168						
HILL CREEK near SLC	MAY-JUL	5.0	9.3	190						
EMIGRATION CREEK near SLC	MAY-JUL	2.5	6.0	240						
CITY CREEK near SLC	MAY-JUL	6.6	10.0	152						
SETTLEMENT CREEK near Tooele	MAY-JUL	2.1	2.7	129						
SOUTH HILLON CREEK near Grantsville	MAY-JUL	2.7	2.5	93						
VERNON CREEK near Vernon	MAY-JUN	535.0	856.0	160						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSTS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	THIS YEAR	LAST YEAR	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
DEER CREEK	149.7	117.3	151.0	135.9	PROVO RIVER & UTAH LAKE	6	463 148
GRANTSVILLE	3.3	3.3	—	—	PROVO RIVER	3	420 138
SETTLEMENT CREEK	1.0	1.0	1.0	0.8	JORDAN RIVER & GREAT SALT	5	0 189
STRAWBERRY-ENLARGED	951.4	309.0	376.8	—	TOOELE VALLEY WATERSHEDS	0	0 0
UTAH LAKE	883.9	1279.0	1236.7	—	UTAH LAKE, JORDAN RIVER &	11	923 167
VERNON CREEK	0.6	0.6	0.6	0.5			

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# 

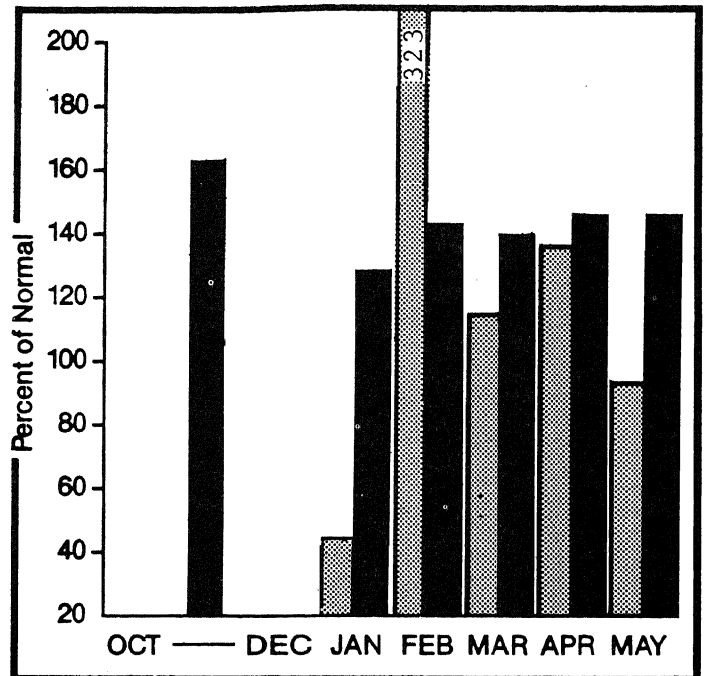
Mountain snowpack\* (inches)



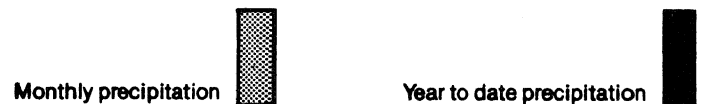
\*Based on selected stations



Precipitation\* (percent of normal)



\*Based on selected stations



## 

Snowpack over the Uintas is 18% greater than normal on the tributaries to the Green River on the north slope and east end of the south slope and 26% above average on the Duchesne and its tributaries. Mountain precipitation was varied ranging from much above average on the west end to much below average on the east end. Reservoirs are 96% of capacity and 122% of average storage for June 1. Streamflow forecasts are unchanged from the levels forecast a month ago and range from 138 to 279% of average.

For more information contact your local Soil Conservation Service office:  
Roosevelt Field Office 801-722-4621

# UINTAH BASIN & DAGGET SCD'S

## STREAMFLOW FORECASTS

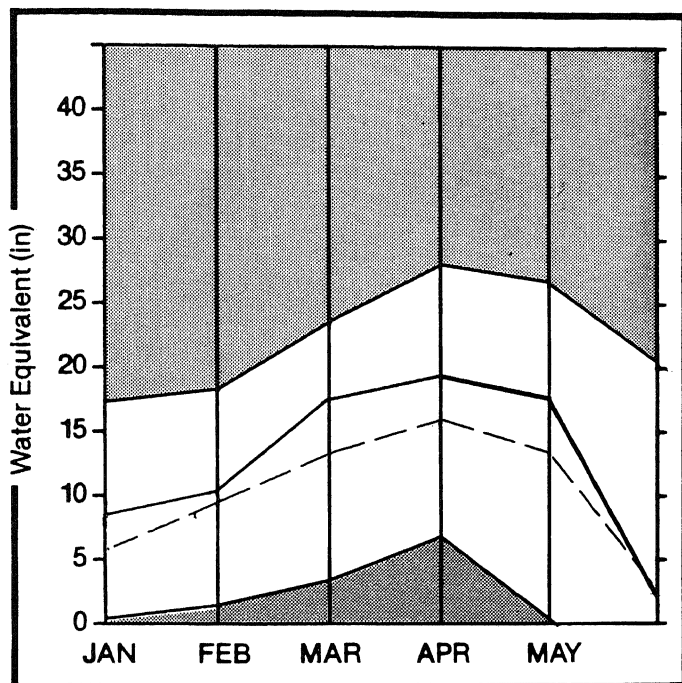
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST. PROBABLE (1000AF)	HIST. PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MTN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
DUCHESNE RIVER near Tabiona	MAY-JUL	96.0	183.0	191						
DUCHESNE RIVER near Duchesne	APR-JUL	189.0	344.0	182						
STRAWBERRY RIVER at Duchesne	APR-JUL	58.0	144.0	248			1050			
ROCK CREEK near Mountain Home	MAY-JUL	88.0	163.0	185						
CURRENT CREEK near Fruitland	MAY-JUL	16.6	30.0	181						
LAKEFORK RIVER near Mountain Home	MAY-JUL	67.0	104.0	155						
YELLOWSTONE RIVER near Altonah	MAY-JUL	61.0	95.0	156						
DUCHESNE near Myton	MAY-JUL	186.0	598.0	322						
WHITE ROCKS RIVER near Whiterocks	MAY-JUL	56.0	91.0	163						
UINTAH RIVER near Neola	MAY-JUL	81.0	135.0	167						
DUCHESNE near Randlett	APR-JUL	257.0	709.0	276						
WEST FORK DUCHESNE RIVER near Hanna	APR-JUL	26.0	49.0	188						
HENRY'S FORK near Manila	APR-SEP	48.0	74.0	154						
BLACK'S FORK near Millburne	APR-JUL	90.0	133.0	148						
FLAMING GORGE RESERVOIR inflow	MAY-JUL	1080.0	2050.0	190						
ASHLEY CREEK near Vernal	MAY-JUL	49.0	72.0	147			1450			

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
FLAMING GORGE	3749.0	2924.0	3356.0	---	UPPER GREEN RIVER in UTAH	8	481	118
HOON LAKE	35.8	35.8	34.1	18.0	ASHLEY CREEK	2	130	110
RED FLEET	26.0	23.9	25.6	---	BLACK'S FORK RIVER	3	312	134
STEINAKER	33.3	33.0	33.3	26.9	SHEEP CREEK	2	10	157
STARVATION	165.3	157.0	168.5	128.9	DUCHESNE RIVER	10	348	126
STRAWBERRY-ENLARGED	951.4	509.0	374.8	---	LAKE FORK-YELLOWSTONE CRE.	2	234	138
					STRAWBERRY RIVER	4	110	110
					UINTAH-WHITEROCKS RIVERS	1	110	63
					UINTAH BASIN & DAGGET SCD	19	322	176

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# Carbon, Emery, Wayne, Grand, and San Juan Co.

**Mountain snowpack\* (inches)**



\*Based on selected stations

Maximum



Average



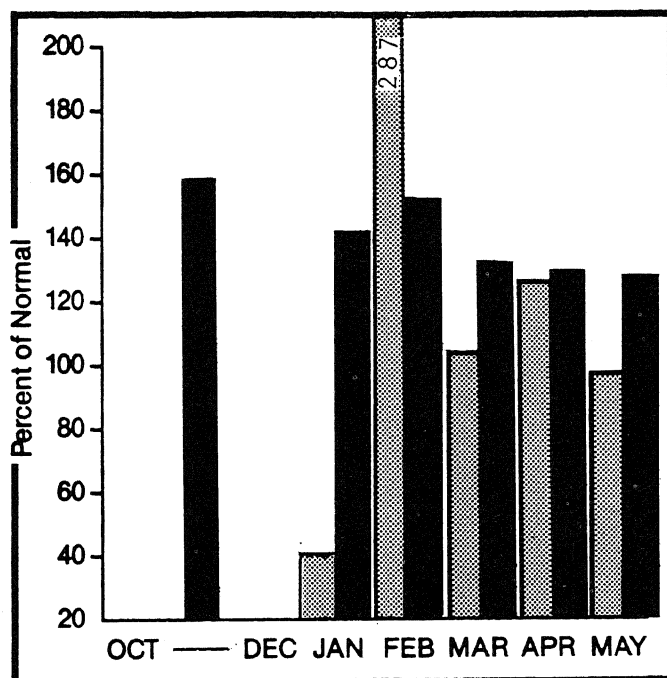
Minimum



Current



**Precipitation\* (percent of normal)**



\*Based on selected stations

Monthly precipitation



Year to date precipitation



## WATER SUPPLY OUTLOOK:

Snowpack on the snow courses of southeastern Utah has been nearly depleted by melt with the exception of a few of the highest sites on the tributaries to the San Rafael. Near normal precipitation was the rule during May with mountain stations average 98% of normal for the month. Reservoir storage is 96% of capacity and 107% of average. Streamflow forecasts are the same as forecast a month ago. Forecasts range from 91 to 192% of average.

For more information contact your local Soil  
Conservation Service office:  
Price Field Office 801-637-0041

**CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.**

STREAMFLOW FORECASTS

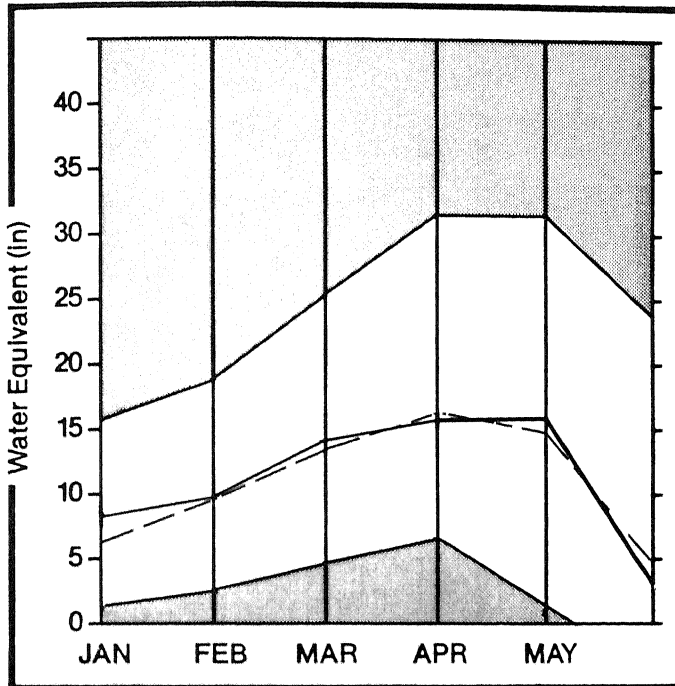
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GOOSEBERRY CREEK near Scofield	MAY-JUL	10.0	12.0	120						
SCOFIELD RESERVOIR inflow	MAY-JUL	33.0	54.0	164						
PRICE near Heiner	MAY-JUL	56.0	100.0	179						
HUNTINGTON CREEK near Huntington	MAY-JUL	43.0	67.0	156						
COTTONWOOD CREEK near Orangeville	MAY-JUL	43.0	60.0	140						
FERRON CREEK near Ferron	MAY-JUL	34.0	49.0	144			720			
MUDDY CREEK near Emery	APR-JUL	18.5	24.0	130			280			
COLORADO near Cisco, UT	MAY-JUL	2638.0	5000.0	190						
GREEN near Green Rv., UT	MAY-JUL	2594.0	5000.0	193						
MILL CREEK near Moab	MAY-JUL	4.7	4.3	91						
NAVAJO RESERVOIR inflow	MAY-JUL	540.0	1000.0	185						
SAN JUAN near Bluff, UT	MAY-JUL	793.0	1350.0	170						
SEVEN MILE CREEK near Fish Lake	APR-JUL	6.5	6.5	100						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** THIS YEAR	USEABLE STORAGE LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
HUNTINGTON NORTH	3.9	3.7	3.8	—	PRICE RIVER	2	0	0
JOE'S VALLEY	54.6	41.7	56.5	54.5	SAN RAFAEL RIVER	4	449	79
KEN'S LAKE	2.3	2.1	2.1	—	MUDDY RIVER	2	0	0
MILL SITE	16.7	16.7	16.7	—	FREMONT RIVER	0	0	0
SCOFIELD	45.8	73.8	70.3	53.8	LASAL MOUNTAINS	1	0	0
					BLUE MOUNTAINS	1	0	0
					CARBON, EMERY, WAYNE, GRA	11	449	66

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

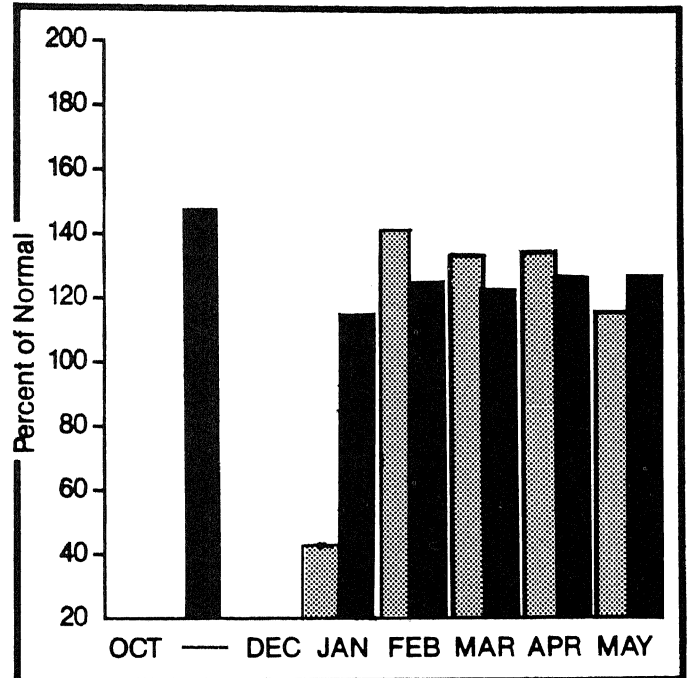
# Sevier & Beaver River Basins

Mountain snowpack\* (inches)



\*Based on selected stations

Precipitation\* (percent of normal)



\*Based on selected stations

Maximum  Average   
Minimum  Current 

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

Snowpack on both the East Fork and South Fork of the Sevier has melted off all snow courses. The Lower Sevier, including the San Pitch, is 82% of the June 1 average. Snowpack on the Beaver River remains well above average at 160% of the June 1 norm. May precipitation at mountain stations ranged from well below average on the Upper Sevier to well above average on the Lower Sevier. Reservoir storage is 95% of capacity and 176% of average. Streamflow forecasts are unchanged ranging from 81 to 481% average.

For more information contact your local Soil Conservation Service office:  
Richfield Field Office 801-896-6261  
Fillmore Field Office 801-743-6655

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

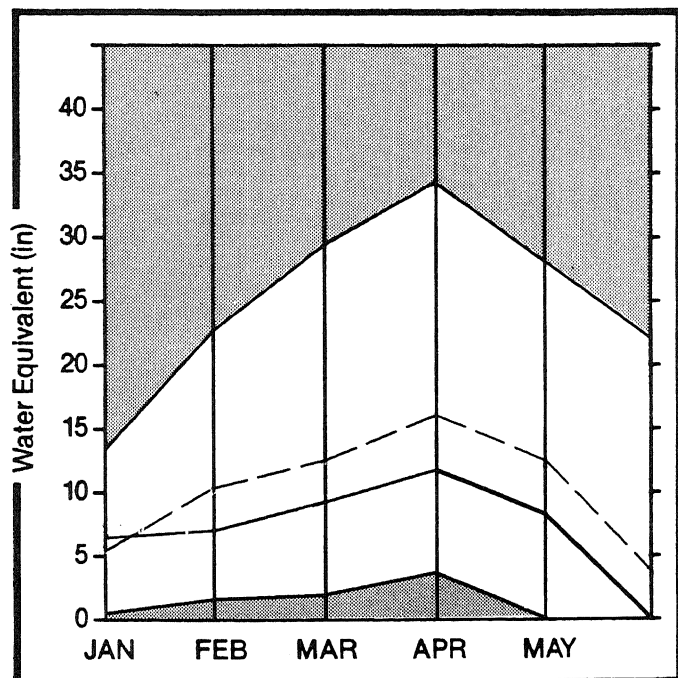
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MTN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SEVIER at Hatch	MAY-JUL	42.0	175.0	417						
SEVIER near Circleville	MAY-JUL	30.0	45.0	150						
SEVIER near Kingston	MAY-JUL	22.0	25.0	114						
ANTHONY CREEK near Anthony	MAY-JUL	5.7	8.5	149						
E F SEVIER near Kingston	MAY-JUL	12.5	20.0	160						
SEVIER b/w Piute Dam	MAY-JUL	33.0	38.0	115						
CLEAR CREEK near Sevier	MAY-JUL	16.2	22.0	136						
SIGURD to GUNNISON	MAY-JUL	16.6	80.0	482						
KINGSTON to VERMILLION DAM	MAY-JUL	28.0	55.0	196						
VERMILLION DAM to GUNNISON	MAY-JUL	19.0	65.0	342						
SALINA CREEK at Salina	MAY-JUN	10.8	20.0	185						
SEVIER nr Gunnison	MAY-JUL	41.0	115.0	280						
CHALK CREEK near Fillmore	MAY-JUL	13.2	13.3	101						
CHICKEN CREEK near Ivan	APR-JUL	3.5	4.2	120						
OAK CREEK near Oak City	MAY-JUL	1.1	1.3	127						
EPHRAIM CREEK near Ephraim	MAY-JUL	8.3	12.0	145						
PLEASANT CREEK near Pleasant	MAY-JUL	7.9	9.0	114						
SALT CREEK near Nephi	MAY-JUL	10.8	8.8	81						
BEAVER RIVER near Beaver	MAY-JUL	21.0	35.0	167			450			
NORTH CREEK near Beaver (combined N	MAY-JUL	12.7	20.6	162						
MINERSVILLE RESERVOIR inflow	APR-JUN	8.9	18.0	202						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USABLE CAPACITY	THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE
GUNNISON	18.2	18.2	18.2	18.4	UPPER SEVIER RIVER (south	7	0 0
MINERSVILLE (R&F)	26.0	23.3	22.6	13.4	EAST FORK SEVIER RIVER	2	0 0
OTTER CREEK	52.5	52.4	52.8	40.3	SOUTH FORK SEVIER RIVER	5	0 0
PIUTE	71.8	63.6	69.1	39.0	LOWER SEVIER RIVER (inclu	9	191 82
SEVIER BRIDGE	236.0	226.3	228.6	112.3	BEAVER RIVER	3	201 160
PANQUITCH LAKE	22.3	21.0	22.1	—	SEVIER & BEAVER RIVER BAS	19	195 84

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# E. Garfield, Kane, Washington, & Iron Co.

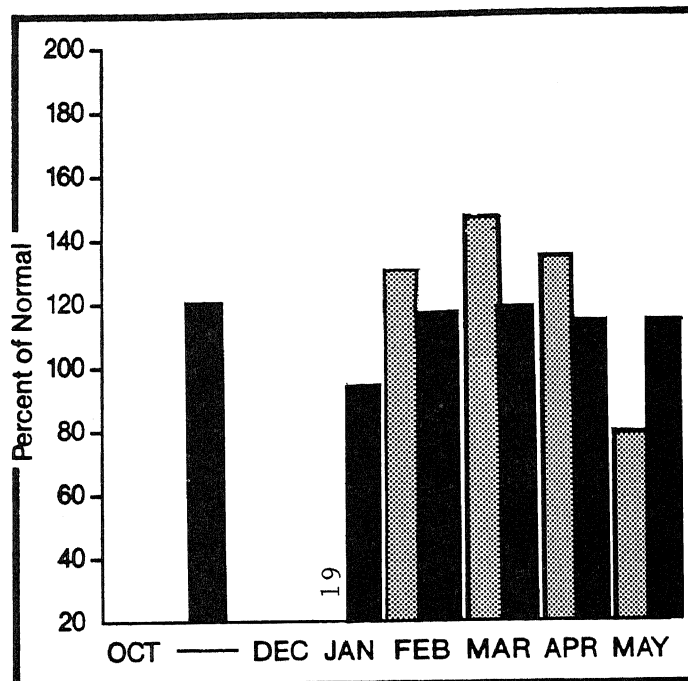
Mountain snowpack\* (inches)



\*Based on selected stations

Maximum  Average   
 Minimum  Current 

Precipitation\* (percent of normal)



\*Based on selected stations

Monthly precipitation  Year to date precipitation 

## WATER SUPPLY OUTLOOK:

All snow courses in southwestern Utah are bare. Mountain precipitation during May varied widely ranging from less than half of normal at Tall Poles in Parowan Canyon to 25% above normal at Little Grassy Creek above Enterprise. Reservoir storage is only 64% of capacity and, with heavy withdrawals being made, the irrigation season will likely be cut short due to water shortages without some rainfall relief. Coal Ck., Santa Clara, and Virgin R. forecasts are unchanged. Inflow to L. Powell increased.

For more information contact your local Soil Conservation Service office:  
 Cedar City Field Office 801-586-2429

**E. GARFIELD, KANE, WASHINGTON, & IRON Co.**

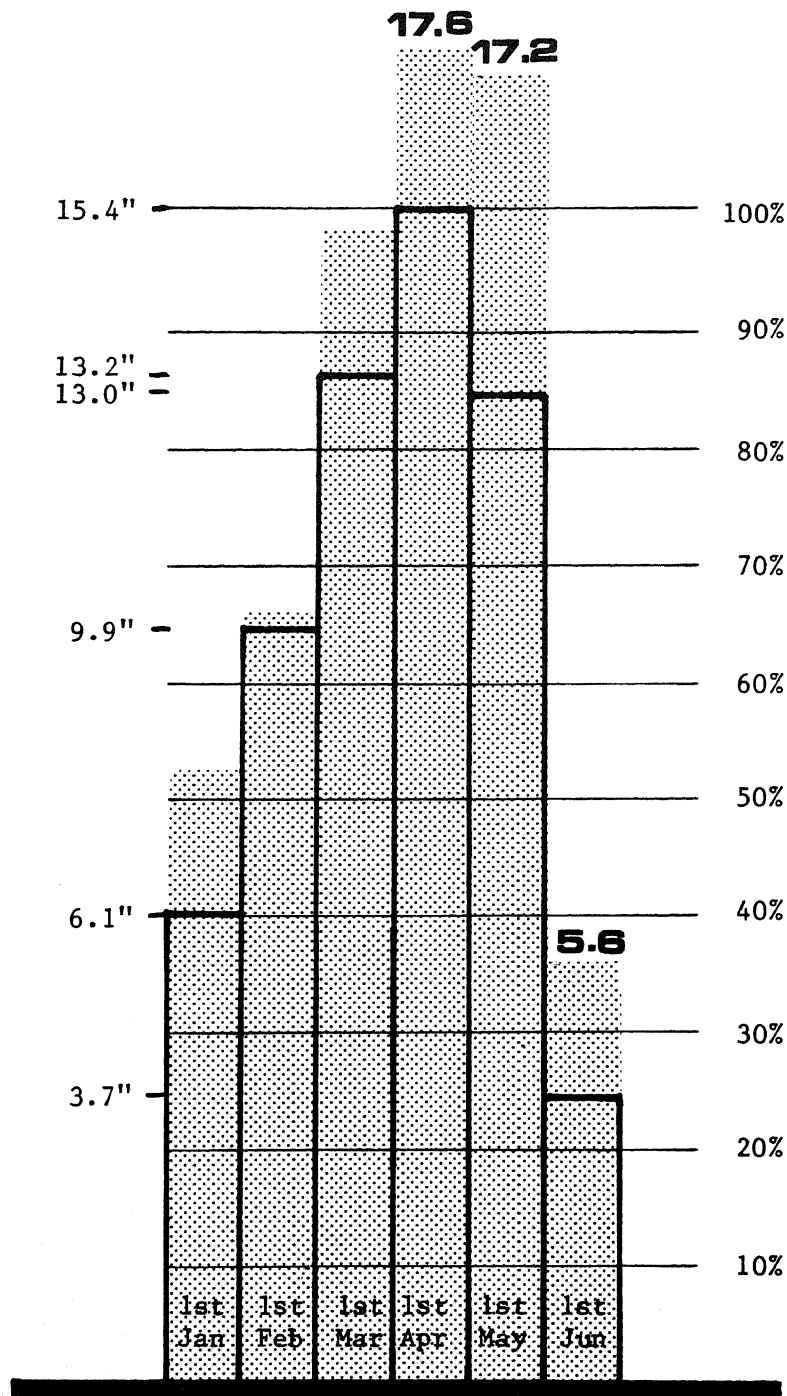
STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	HIST PROBABLE (1000AF)	HIST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
VIRGIN near Hurricane	MAY-JUN	40.0	38.0	100						
SANTA CLARA near Pine Valley	MAY-JUN	4.1	4.2	102						
COAL CREEK near Cedar City	MAY-JUL	15.4	20.0	139						
LAKE POWELL inflow	MAY-JUL	6475.0	13000.0	201						

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSTS			
RESERVOIR	USEABLE CAPACITY	** HIST YEAR	USEABLE STORAGE LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR. AVERAGE	
GINLOCK	10.4	7.4	---	---	VIRGIN RIVER	4	0	0
LAKE POWELL	25002.0	22674.0	24296.0	---	PARDHAN	2	0	0
QUAIL CREEK	40.0	27.0	---	---	ENTERPRISE TO NEW HARMONY	2	0	0
UPPER ENTERPRISE	10.0	5.0	---	---	COAL CREEK	2	0	0
LOWER ENTERPRISE	2.6	1.0	---	---	ESCALANTE RIVER	1	0	0
					E. GARFELD, KANE, WASHIN	8	0	0

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1941-80 period.

# Utah Snowpack Progress



## Statewide

Average monthly snow water equivalent for the current water year is compared to 1961-80, 20 year average monthly snow water equivalent. Peak average snow water equivalent achieved on April 1 equals 100%.



# The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

## State

Utah State University  
Utah State Department of Natural Resources  
Division of Wildlife Resources  
Division of Water Resources  
Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## Federal

U.S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## Municipality

Manti  
Salt Lake City

## Public

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Central Utah Conservancy District  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association  
Weber River Water Users Association  
Weber Basin Conservancy District

Other organizations and individuals furnish  
information for the snow survey reports.  
Their cooperation is gratefully acknowledged.

All programs and services of U.S. Dept.  
of Agriculture are available to everyone  
without regard to race, creed, color, sex,  
age, handicap, or national origin.